

Laboratory Neno Technical Services, Plot No. M/154, Baramunda, HB Colony, Bhubaneswar, Odisha

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2509

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Validity 03.01.2018 to 02.01.2020

Last Amended on 18.01.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	Temperature Simulation [#] (Temperature Indicator/Controller/ Recorder) RTD Type 'N' Type 'J' Type 'K' Type 'T' Type R' Type S Type	(-) 200 ^o C to 800 ^o C 0 ^o C to 1300 ^o C (-)210 ^o C to 1200 ^o C (-)200 ^o C to 1350 ^o C (-)100 ^o C to 300 ^o C 50 ^o C to 1750 ^o C 200 ^o C to 1700 ^o C	0.6 ^o C 0.82 ^o C 1.12 ^o C 0.61 ^o C 0.6 ^o C 1.4 ^o C 1.3 ^o C	Using Temperature Calibrator by Direct Method
II.	MEASURE			
1.	AC High Voltage Tester [*]	50Hz 1kV to 10kV	0.07kV to 0.5 kV	Using DMM & H.V. Probe 80k 40 by Direct Method
2.	DC High Voltage Tester [*]	1kV to 2kV	0.2kV	Using DMM& H.V. Probe 80k 40 by Direct Method
3.	AC Energy at UPF [*]	1- \emptyset /3- \emptyset 40V to 320V 0.1A to 20A 50Hz 4Wh to 6.4kWh	1.2%	Using Fluke Energy Logger by Comparison Method

Mohit Kaushik
Convenor

Avijit Das
Program Director

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<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Vernier Caliper /Dial / Electronics [§] L.C. :0.01mm	0 to 600mm	13.2 μ m	Using Caliper Checker
2.	External Micrometer [§] L.C. :0.001mm	0 to 100mm	1.9 μ m	Using Grade '0' Gauge Block
3.	Height Gauge- Vernier /Dial/ Electronic [§] L.C. :0.01mm	0 to 600mm	13.8 μ m	Using Caliper Checker & Surface Plate
4.	Feeler Gauge/ Thickness Foils [§]	Upto 1.0mm	2.6 μ m	Using Digital Micrometer
5.	Test Sieves [§]	4.0 mm to 100mm	18.0 μ m	Using Digital Vernier
II.	UTM, TENSION CREEP AND TORSION TESTING MACHINE			
1.	UTM/TTM/CTM*	20 kN to 200 kN 100 kN to 1000 kN	1.49 % 1.69 %	Using Load Cell
III.	PRESSURE INDICATING DEVICES			
1.	Pressure Gauge [#] (Digital /Analogue, Transducer, Transmitter, Switches)	0 to 700bar	1.38bar	Using Digital Pressure Gauge with Hydraulic Comparator as per DKD R--1

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<u>THERMAL CALIBRATION</u>				
1.	RTD/ Thermocouples with or without Temperature Indicator / Controller/ Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer [#]	30°C to 100°C	0.4°C	Using Standard RTD sensor with Digital Thermometer, Process Calibrator & Dry well Temp. Bath, by Comparison Method
2.	RTD/ Thermocouples with or without Temperature Indicator / Controller/ Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer [#]	100°C to 650°C	2.11°C	Using Standard R Type Thermocouple with Digital Thermometer, Process Calibrator & Dry well Temp. Bath, by Comparison Method
3.	Temperature Indicator of Freezer/ Oven/ Environmental Chamber/ Incubator/ liquid bath/ Furnace/ Dry Block* (Single Point)	(-)40°C to 100°C	0.9°C	Using Standard RTD sensor with Digital Thermometer

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4.	Temperature Indicator of Freezer/ Oven/ Environmental Chamber/ Incubator/ liquid bath/ Furnace/ Dry block* (Single Point)	100°C to 1100°C	2.13°C	Using Standard R Type Thermocouple with Digital Thermometer

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

§ Only in Permanent Laboratory

* Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.